## बीरबल साहनी पुराविज्ञान संस्थान, लखनऊ BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW

टेलीग्राम पेलियोबॉटनी दूरभाष 2740008, 2742983 फैक्स ९१-91-522-2740485, 2740098 53, विश्वविद्यालय मार्ग लखनऊ-226007

Date: 04.11.2019

संयोजक वेबसाइट समिति, बी सा पु सं, लखनऊ।

	10 KVA Online UPS with 30 min backup time-01 (Specifications at the back
Subject:	:
ar Sirs,	

Dear Sirs,

This Institute intend to purchase item mentioned above. Sealed quotations are invited so as to reach this office on or before 5:00 P.M. on 22.11.2019 duly superscribed by "10 KVA Online UPS with 30 min backup time".

While submitting quotation please note that:

- The material may either of indigenous manufacturer or of foreign make, available from ready stock. Any offer to supply on forward Delivery Basis under suppliers own quota license will also be considered.
- 2. The price quoted should be F.O.R. Destination.
- 3. Your rates should include packing, insurance and forwarding charges.
- 4. The rates of GST should be clearly indicated wherever chargeable. The tendered should also indicate GST Registration Number and date in this quotation.
- 5. Specific mention should be made whether the offer is for supplies available ex-stock. In case the officer is on Forward Delivery basis, firm delivery period must be indicated.
- The cover should be sealed and superscribed "Quotation for "10 KVA Online UPS
  with 30 min backup time" must be written on envelope. The quotations not
  complying the procedure will be rejected.
- Payments will be made by crossed cheque on The Indian Overseas Bank, Lucknow only after receipt and acceptance of supply and installation/ if required satisfactory.
- 8. The acceptance of the quotation will rest with the Director who does not bind himself to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotation received without assigning any reasons.
- The quotations are liable to be cancelled if any of the above mentioned conditions are not complied with.
- 10. The items may be increase or decrease at the time of purchase.

(Hari Lal) Section Officer Store & Purchase Section Specifications of 10 KVA Online UPS with 30 min backup time for similar level or better

Normal Voltage Nominal Frequency

Output:

Inverter Design

Voltage

Regulation

Phase Displacement

Frequency

Waveform

Total Harmonic Distortion

Crest Factor Overload Capacity

Environmental:

Ambient Temperature Relative Humidity

Altitude Physical:

**Enclosure Protection** 

Protection:

Testing Standards Acoustic Noise (in dBA)

Overall Efficiency

Full setup including batteries needs to fit in the available space (Width 40" Depth 15") Short circuit protection

Over load protection

Over temperature protection

Input low/high voltage control

DC low/high voltage trip

Battery:

Battery shall conform to JISC:8702 (Pt. I, II & III) or latest

Battery recharge time

(after complete discharge to 90% charge) and charge rating: Battery recharge time to 90%

IGBT charger - Advanced rectifier 415 V AC (-20% to +15%) 3 Ph & N 50 Hz (± 6%) (60 Hz optional)

IGBT based PWM with Digital control

400 V AC (380 / 415, selectable)

3 Ph & N

± 1% for balanced load

± 2% for 100% unbalanced load

≤ 1° for balanced load

≤2° for 100% unbalanced load

50 Hz (± 0.1 Hz) in free running mode, (+2.5 Hz) in synchronous mode

(60 Hz optional)

True Sinewave

< 2% on linear load

< 5% on non-linear load (Ref IEC

62040-3)

3:1

125% for 10 minutes

150% for 60 sec (inverse time

characteristics)

0 to 50° C

Up to 90% (Non-Condensing) <1000 meter, above sea level

IP-20

IEC 62040-3

< 60

Battery charger should be capable to charge battery on C10 rating

VAH tolerance

-1% of the defined capacity

Battery cutoff voltage during back up

Not less than 10.5 V

More than two battery banks should not be used in parallel in any configuration

Batteries shall supply with

With rack

Battery type

SMF VRLA

## Meters and Indicators:

UPS shall have LCD meter to measure and monitor input voltage, output voltage, output current/load level in %, DC current/DC level in %, DC voltage, input and output frequency UPS shall have indicators for Mains on, Load on battery, Inverter, Battery level, Load level,

UPS shall have audible alarm for over temperature, mains failure, battery low, inverter overload

## Warranty and Services

Warranty for UPS (on site comprehensive

3

2

warranty) (in years)

Warranty for battery (replacement warranty)

(in years)

After sales and complaint service

within 24 hours

AMC support available after 5-year warranty

Quarterly preventive maintenance

Manufacturer shall provide and support for installation, commissioning, spares, technical

Availability of spares in close proximity (Spares should be easily available close to the site) Certifications:

Damp Heat Test: in accordance with IS:9000 (part 5/sec.2) 1981 at Temperature of 40 degree C, two cycles of (12+12) hours each 2007)

Dry Heat Test: in accordance with IS:9000 (part 3/sec.5)1977 (reaffirmed 2007) at 55

Cold Test: in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degree

Availability of the Type Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.

As per Meity (Government of India) guidelines storage battery shall have valid BIS CRS certifications as applicable as on date

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All the test reports and certificates shall furnish by the supplier to the buyer/consignee on demand